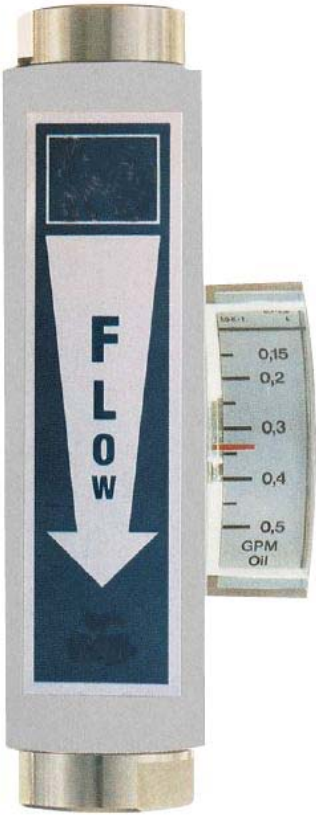


# North American 8598B Direct Reading Oil Flow Meters for Distillate Fuel Oils

- **±5% Full scale accuracy**
- **Max. Pressure 3600 PSIG (Brass) 5000 PSIG (SST)**
- **Can accurately measure flow of a wide range of media without recalibration.**
- **Viscosity compensated for  $\Delta v = 540$  cSt (2612 SSU) enabling use of same scale - no need for recalibration.**
- **Density compensated for  $\Delta \rho = 30$  lb/ft<sup>3</sup>, enabling use of same scale - no recalibration needed.**
- **Wide range of models available for installation in every position**
- **All media contacted parts available in Brass or Stainless Steel**

The **8598B** flowmeter fills an important role in fuel oil flow measurement for combustion systems. It is an extremely versatile instrument usable for #1 through #6 fuel oils. The 8598B is a viscosity and density compensated flowmeter, making it especially suited for use in applications where changing viscosities or densities of the measured media make flow determination difficult. The 8598B offers viscosity independent behavior for fluids in the range of 1-540 cSt (31-2216 SSU). Ordinary float-type flow meters experience measurement errors of up to 1000% with this type of a viscosity change in the medium.



## SPECIFICATIONS

	8598B	8598S
<b>Material:</b>		
<b>Housing</b>	Nickle-Plated Brass	304 SST
<b>Magnets</b>	Ceramic Oxide	Ceramic Oxide
<b>Springs</b>	301 Stainless Steel	301 Stainless Steel
<b>O-Rings</b>	Buna-N	Viton
<b>Orifice</b>	301 SST	301 SST
<b>Connections</b>	Nickle-Plated Brass	304 SST
<b>Float</b>	Brass	304 SST
<b>Pressure Rating</b>	3600 psi	5000 psi
<b>Temperature Rating</b>	212 F	212 F

**Pressure Drop** See charts (back side)

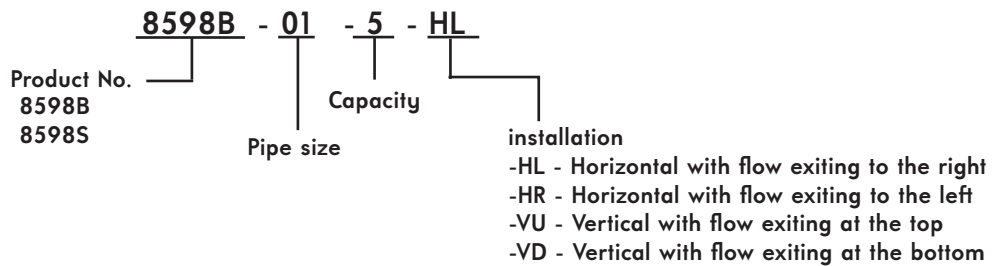
8598B

Designation	Capacity (GPM of oil)	Connection Size (NPT)	Max Pressure Drop (PSI)
8598B-03-0.12	0.03-0.12	1/4"	11.6
8598B-03-0.3	0.05-0.3	1/4"	16.0
8598B-03-0.9	0.2-0.9	1/4"	13.1
8598B-03-2.5	0.5-2.5	1/4"	11.6
8598B-01-3.5	1-3.5	1/2"	16.0
8598B-01-5	1.5-5	1/2"	16.0
8598B-0-11	1-11	3/4"	5.8
8598B-0-14	1-14	3/4"	16.0
8598B-0-18	2-18	3/4"	16.0
8598B-1-20	2-20	1"	16.0

8598S

Designation	Capacity (GPM of oil)	Connection Size (NPT)	Max Pressure Drop (PSI)
8598S-03-0.12	0.03-0.12	1/4"	11.6
8598S-03-0.3	0.05-0.3	1/4"	16.0
8598S-03-0.9	0.2-0.9	1/4"	13.1
8598S-03-2.5	0.5-2.5	1/4"	11.6
8598S-01-3.5	1-3.5	1/2"	16.0
8598S-01-5	1.5-5	1/2"	16.0
8598S-0-11	1-11	3/4"	5.8
8598S-0-14	1-14	3/4"	16.0
8598S-0-18	2-18	3/4"	16.0
8598S-1-20	2-20	1"	16.0

ORDERING INFORMATION



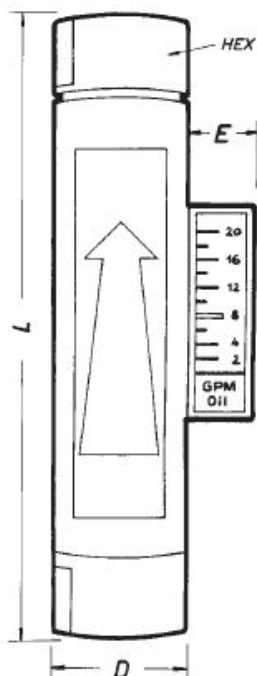
## MOUNTING

1. The 8598B may be mounted in any orientation without affecting accuracy. However, each 8598B comes with its flow indicator in a pre-determined location. For ease of reading flow, North American recommends selecting a meter based on your expected mounting orientation. See "Ordering Information" on page 2.

2. The medium must flow through the instrument from inlet to outlet. The inlet fitting can be identified as the fitting where the float rests in a no flow condition. Additionally, the flow direction arrow on the meter body points from inlet to outlet.

3. The medium must not contain any solids or contaminants prone to precipitate out of solution and deposition on the instrument's inner walls. This would prevent proper operation of the device. Unclean media should be filtered upstream of the 8598B. North American offers a series 8555B basket strainer for such purposes. North American recommends a 20 mesh strainer for 40 SSU oil (See 8555B strainer bulletin).

Brass	SST	HEX	D	L	E	Weight
8598B-03-0.12 to 8598B-01-3.5	08598S-03-0.12 to 8598S-01-3.5	1.42"	1.57"	6.38"	0.87"	3.75
8598B-01-5 8598B-0-11	8598S-01-5 8598S-0-11	1.42" 1.42"	1.57" 1.57"	6.38" 6.38"	0.87" 0.87"	3.5 3.5
8598B-0-14 to 8598B-0-18	8598S-0-14 to 8598S-0-18	1.42"	1.57"	6.38"	0.87"	3.7
8598B-1-20	8598S-1-20	1.61"	1.57"	7.34"	0.87"	3.75



**WARNING:** Situations dangerous to personnel and property may exist with the operation and maintenance of any combustion equipment. The presence of fuels, oxidants, hot and cold combustion products, hot surfaces, electrical power in control and ignition circuits, etc., is inherent with any combustion application. Parts of this product may exceed 160F in operation and present a contact hazard. Fives North American Combustion, Inc. urges compliance with National Safety Standards and Insurance Underwriters' recommendations, and care in operation.